Cordless Circular Saw

(Model CL180CS)

INSTRUCTION MANUAL

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ESPAÑOL: PÁGINA 17

For Parts, Service, Warranty or other Assistance,

please call 1-800-223-7278 (In Canada call 1-800-463-3582).

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

⚠DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING indicates a potentially hazardous situation which, if not avoided,could result in death or serious injury.

⚠CAUTION indicates a potentially hazardous situation which, if not avoided,may result in minor or moderate injury.

CAUTION used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

⚠WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints
- crystalline silica from bricks and cement and other masonry products
- arsenic and chromium from chemically-treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear MSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

GENERAL SAFETY RULES

⚠WARNING **Read and understand all instructions.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS.

WORK AREA

1. Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

3. Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. Do not abuse the cord. Never use the cord to carry the tool. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

2. A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery. A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.

3. Use battery operated tool only with specifically designated battery pack. Use of any other batteries may create a risk of fire.

PERSONAL SAFETY

1. Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

3. Avoid accidental starting. Be sure switch is in the locked or off position before inserting battery pack. Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.

4. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

5. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

6. Use safety equipment. Always wear eye protection. Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

7. Use certified safety equipment. Eye protection equipment should comply with ANSI Z87.1 standards, hearing equipment should comply with ANSI S3.19 standards, and dust mask protection should comply with MSHA/NIOSH certified respirator standards.

TOOL USE AND CARE

1. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

2. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

3. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

4. Disconnect battery pack from tool and place the switch in the locked or OFF position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

5. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

6. When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns, or a fire.

7. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.

8. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

9. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

SERVICE

1. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

2. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

ADDITIONAL SPECIFIC SAFETY RULES

1. **Keep hands away from cutting area and blade. Keep your second hand on auxiliary handle or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.
2. **Keep your body positioned to either side of the saw blade, but not in line with the saw blade.** KICKBACK could cause the saw to jump backwards. (See "Causes and Operator Prevention of KICKBACK.")
3. **Do not reach underneath the work.** The guard cannot protect you from the blade below the work.
4. **Check lower guard for proper closing before each use. Do not operate saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the Retracting Handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
5. **Check the operation and condition of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a buildup of debris.
6. **Lower guard should be retracted manually only for special cuts such as "Pocket Cuts" and "Compound Cuts." Raise lower guard by Retracting Handle. As soon as blade enters the workpiece, lower guard must be released.** For all other sawing, the lower guard should operate automatically.
7. **Always observe that the lower guard is covering the blade before placing saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.
8. **NEVER hold piece being cut in your hands or across your leg.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
9. **Hold tool by insulated gripping surfaces when performing an operation where the cutting tools may contact hidden wiring.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
10. **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance for blade binding.
11. **Always use blades with correct size and shape (diamond vs. round) arbor holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
12. **Never use damaged or incorrect blade washers or bolts.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.
13. **Causes and Operator Prevention of Kickback:**

    Kickback is a sudden reaction to a pinched, bound, or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.

    - When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.

- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
- Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

14. Maintain a firm grip on the saw and position your body and arm in a way that allows you to resist KICKBACK forces. KICKBACK forces can be controlled by the operator, if proper precautions are taken.

15. When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the workpiece until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or KICKBACK may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

16. When restarting a saw in the workpiece, center the saw blade in the kerf and check that teeth are not engaged into the workpiece. If saw blade is binding, it may walk up or KICKBACK from the workpiece as the saw is restarted.

17. Support large panels to minimize the risk of blade pinching and KICKBACK. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

18. Do not use dull or damaged blade. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding, and KICKBACK.

19. Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it will cause binding and KICKBACK.

20. Use extra caution when making a "Pocket Cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause KICKBACK.

21. Be aware that this tool is always in an operating condition, **because it does not have to be plugged into an electrical outlet.** Always set the trigger switch to the locked "OFF" position when installing or removing the battery pack or saw blade.

22. Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, all safety information available from your material supplier.

⚠WARNING There are certain applications for which this tool was designed. Delta strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Delta and we have advised you.

Technical Service Manager
Delta Machinery
4825 Highway 45 North
Jackson, TN 38305

SYMBOLS

SYMBOL		DEFINITION
V	.....	volts
A	.....	amperes
Hz	.....	hertz
W	.....	watts
kW	.....	kilowatts
µF	.....	microfarads
l	.....	liters
kg	.....	kilograms
N/cm^2	.....	newtons per square centimeter
Pa	.....	pascals
h	.....	hours
min	.....	minutes
s	.....	seconds
	.....	alternating current
3	.....	three-phase alternating current
3N	.....	three-phase alternating current with neutral
	.....	direct current
n_0	.....	no load
	.....	alternating or direct current
	.....	Class II Construction
	.....	splash-proof construction
	.....	watertight construction
…/min	.....	revolutions or reciprocation per minute

SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES

1. SAVE THESE INSTRUCTIONS. This manual contains important safety and operating instructions for Delta Battery Charger.

2. Before using a battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

3. ⚠CAUTION To reduce risk of injury, a Delta charger should only be used to charge a Delta battery pack. Other types of batteries may burst causing personal injury and damage. Do not charge a Delta battery pack with any other charger.

4. Do not expose charger to rain, snow or frost.

5. Do not abuse cord. Never carry charger by cord or yank it to disconnect from receptacle. Pull by plug rather than cord when disconnecting charger. Have damaged or worn power cord and strain reliever replaced immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.

6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

7. Do not use an extension cord unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:

A. That the pins on plug of extension cord are the same number, size and shape as those of plug on charger.

B. That the extension cord is properly wired and in good electrical condition.

C. Wire Size of cord is at least as specified in following chart:

LENGTH OF CORD IN FEET	25	50	100	150
AWG SIZE OF CORD	18	18	18	16

D. If an extension cord is to be used outdoors it must be marked with the suffix W-A or W following the cord type designation. For example – SJTW-A to indicate it is acceptable for outdoor use.

8. Do not operate charger with damaged cord or plug – have them replaced immediately, to avoid a hazard. DO NOT ATTEMPT TO REPAIR POWER CORD.

9. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.

10. Do not disassemble charger or battery pack. Take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

11. Unplug charger from outlet before attempting any maintenance or cleaning – to reduce risk of electric shock.

12. Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.

13. Do not store the charger or battery pack in locations where the temperature may reach or exceed 122°F (50°C) (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.

14. Do not charge battery pack when the temperature is BELOW 40°F (4.4°C) or ABOVE 104°F(40°C). This is very important for proper operation.

15. Do not incinerate battery pack. It can explode in a fire.

16. Do not charge battery in damp or wet locations.

17. Do not attempt to charge any other cordless tool or battery pack with the Delta charger.

18. Do not short across the terminals of the battery pack: EXTREMELY HIGH TEMPERATURES COULD CAUSE PERSONAL INJURY OR FIRE.

19. Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double Insulation ⧈ eliminates the need for the three wire grounded power cord and grounded power supply system.

20. Dispose of expended batteries properly. The Delta Battery Packs contains rechargeable, nickel-cadmium batteries. These batteries must be recycled or disposed of properly. Drop off expended battery packs at your local replacement battery retailer, your local recycling center, or at a Delta Service Center (see list on back page of this manual). Applicable fees for the collection and recycling of these batteries (in the United States), have been paid to the RBRC™. For further information, call: 1-800-8-BATTERY.

RBRC™ is a Trademark of the Rechargeable Battery Recycling Corporation.

REPLACEMENT PARTS

When servicing use only identical replacement parts.

FUNCTIONAL DESCRIPTION

FOREWORD

Delta Model CL180CS Cordless Circular saw is designed to cut 2" (51mm) finished lumber at 90°, using a 5-1/2" (140mm) diameter, ultra thin-kerf blade having a .394" (10mm) diameter mounting hole.

CHARGING THE BATTERY

CHARGING THE BATTERY PACK GENERAL

Before using your cordless tool for the first time, the battery pack should be fully charged. If the battery pack is installed in the tool, remove it by following instructions under INSTALLING OR REMOVING BATTERY PACK.

As a battery pack approaches the discharged state, you will notice a sharp drop in tool performance. When the tool is unable to perform the task at hand, it is time to recharge the battery pack. Recharging the battery pack before this condition is reached will reduce the total work life of the pack. Discharging the pack beyond this point can damage the pack.

NOTE: Battery temperature will increase during and shortly after use. Batteries may not accept a full charge if they are charged immediately after use. Allow the battery pack to cool to room temperature before charging for best results.

CAUTION The battery charger must rest on the four pads provided on the bottom of the case. Vent slots in top and bottom of charger must not be obstructed. Do not charge battery when temperature is BELOW 40°F (4.4°C) or ABOVE 104°F (40°C).

NORMAL CHARGING

Make sure power circuit voltage is the same as that shown on the charger specification plate. Connect charger to power source. The orange light (A) Fig. 2, should light up. This indicates the charger is ready to begin charging.

Position battery pack on charger, align rails (D) Fig. 2 and Fig. 3, on battery charger with four tabs (C) Fig. 3 on battery pack. Slide battery forward onto charger until it stops.

The red light (B) Fig. 2, should begin to glow continuously, indicating that the battery pack is receiving a "Fast Charge" (if the red light does not glow continuously, and the green light (C) Fig. 2, begins to glow: remove battery and reinsert when battery temperature is between 40°F (4.4°C) and 104°F (40°C). After approximately one hour, the "Fast Charge" indicator light (red) should go out indicating that the battery pack is fully charged and that the charger is now in a "Trickle Charge" mode (green light). The battery pack can be left on "Trickle Charge" until you are ready to use it.

Depending on room temperature, line voltage, and existing charge level, initial battery charging may take longer than one hour. Disconnect charger from power source when not in use.

Special Charge Modes: If all lights go out after the battery is inserted, the charger has entered pre-charge mode. In approximately 5-10 minutes, the orange and red lights should turn on indicating that fast charge has been initiated. If all lights remain off after 15 minutes, remove the battery. The orange light should glow. Reinsert the battery. If the orange light goes out when the battery is inserted and all lights remain off for 15 minutes, battery should be replaced.

After inserting battery, if the orange light is on while the red and green lights remain off, remove battery and re-insert. If the orange light is on while the red and green lights remain off, battery should be replaced.

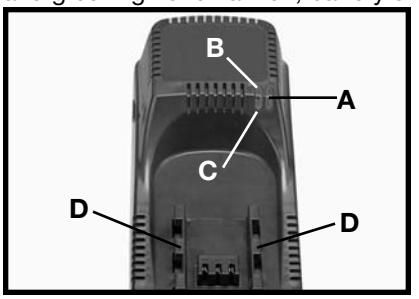

Fig. 2

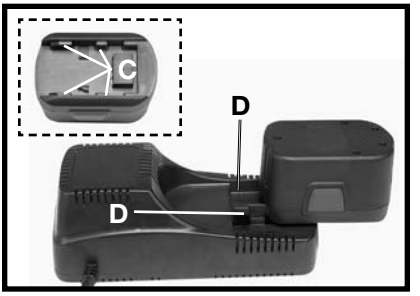

Fig. 3

INSTALLING OR REMOVING BATTERY PACK

TO INSTALL BATTERY PACK: Align rails (A) Fig. 4, on battery pack with slots on tool and push battery pack onto tool until it locks in place.

TO REMOVE BATTERY PACK: Depress the battery release button (B) Fig. 4, and pull battery pack out of tool.

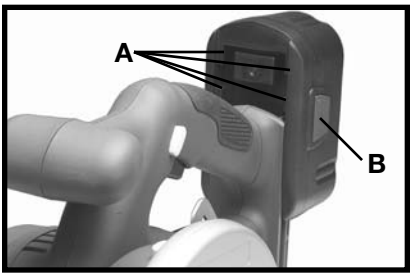

Fig. 4

OPERATING AND ADJUSTMENTS

STARTING AND STOPPING THE SAW

⚠WARNING This tool is always in an operating condition because it does not have to be plugged into an electrical outlet. Keep hands, body, and clothing clear of the blade when a battery pack is installed in the saw.

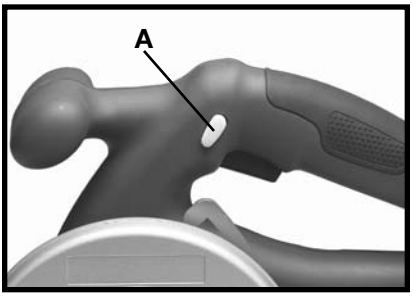

Fig. 5

The trigger switch is equipped with a “lock-off” button (A) Fig. 5. This “lock-off” button extends through the upper handle area, and may be depressed from either the left or the right side of the handle. Depress either end of this button to release the “lock-off” feature, allowing the trigger switch to be engaged.

1. **TO START THE SAW** – Depress and hold either end of the “lock-off” button (A) Fig. 6, then squeeze the trigger switch (B) Fig. 6 to start the saw. (The “lock-off” button may be released as soon as the trigger switch is squeezed).

2. **TO STOP THE SAW** – Release the trigger switch.

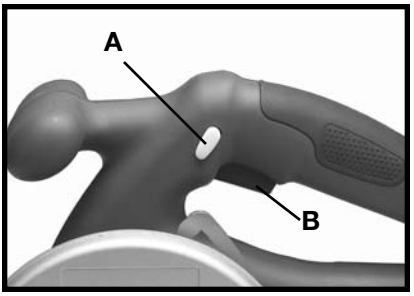

Fig. 6

REMOVING THE BLADE

⚠WARNING REMOVE THE BATTERY.

⚠CAUTION AVOID CONTACT WITH THE BLADE TEETH TO PREVENT PERSONAL INJURY.

1. Pull the blade wrench (C) Fig. 7 from the storage pocket on the right side of the saw.

2. Press the arbor lock button (D) Fig. 8, and rotate the blade by hand until the lock engages the blade arbor.

3. Continue pressing the arbor lock button, use the blade wrench to loosen the blade retaining bolt by rotating clockwise. **NOTE:** The blade bolt has a left-hand thread.

4. Remove the blade retaining bolt, release the arbor lock, and remove the outer blade flange.

5. Retract telescoping guard and remove blade.

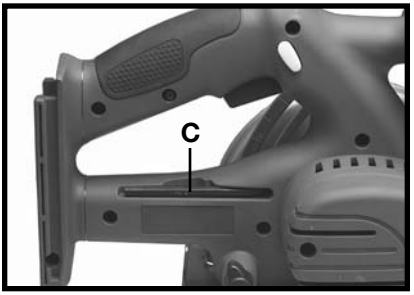

Fig. 7

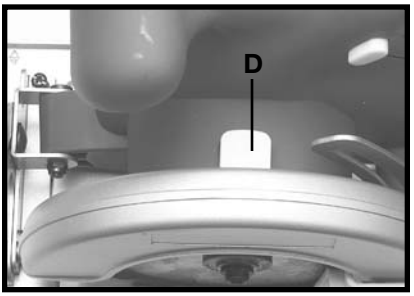

Fig. 8

INSTALLING THE BLADE

⚠WARNING REMOVE THE BATTERY.

⚠CAUTION AVOID CONTACT WITH THE BLADE TEETH TO PREVENT PERSONAL INJURY.

1. Remove any accumulated sawdust in the guards, around the arbor, and the telescoping guard spring. Check the telescoping guard to ensure that it is working properly.

2. Clean the inner blade flange, retract the telescoping guard, and place a sharp blade on the arbor making sure that the teeth (A) point up at the front of the saw (Fig. 9).

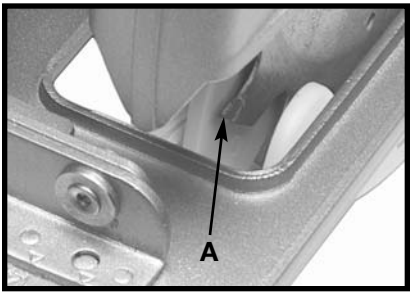

Fig. 9

3. Place the outer blade flange on the arbor with the flange toward the blade. Mate the flats with those on the arbor.

4. Replace the blade retaining bolt and finger tighten by turning counterclockwise.

5. Push in the arbor lock and rotate the blade arbor by hand until the lock engages the arbor. Tighten the blade retaining bolt with the blade wrench (C) Fig. 6 just enough to prevent blade slippage during normal cutting, and release the arbor lock.

TELESCOPING GUARD

The telescoping guard (E) Fig. 10 is an important safety device. Each time you use the saw, see that the telescoping guard rotates freely and returns quickly and completely to its closed position. Frequently check the retracting spring (F) Fig. 10 to see that it is functional and free of debris. At least once a month, remove any accumulated sawdust, pitch, or other debris from the area around the hub (G) Fig. 10 of the telescoping guard, and add a few drops of light machine oil at each end of the hub. **NEVER** block or wedge the telescoping guard in the open position.

⚠WARNING **DO NOT** use your saw if the telescoping guard is not in working order. If the telescoping guard movement is sluggish or binding exists, take the saw to your nearest AUTHORIZED DELTA SERVICE STATION or DELTA SERVICE CENTER for repair.

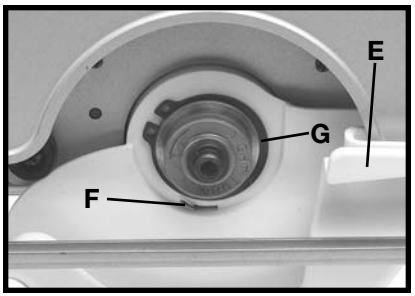

Fig. 10

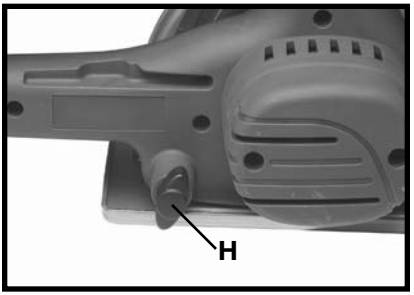

Fig. 11

TO ADJUST DEPTH OF CUT

Adjust the depth of cut so that the saw blade just protrudes through the thickness of workpiece being cut.

⚠WARNING **REMOVE THE BATTERY.**

1. Loosen the depth adjusting knob (H) Fig. 11 at the rear of the saw.

2. Raise or lower the saw housing until the blade extends the desired distance below the workpiece.

NOTE: The depth adjusting segment (J) Fig. 12 is marked in 1/8" increments. Aligning the required marking with the lower edge of the housing will produce the approximate depth of cut desired.

3. Tighten the depth adjusting knob firmly, locking the saw in the selected position.

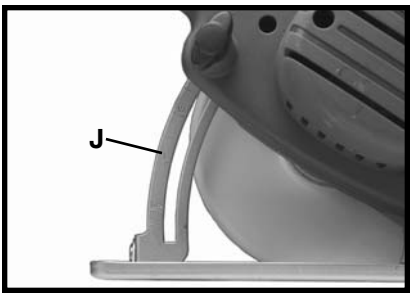

Fig. 12

TO ADJUST FOR BEVEL CUTS

⚠WARNING REMOVE THE BATTERY.

1. Loosen the bevel adjustment locking lever (K) Fig. 13.
2. Tilt the saw base until the desired graduation line on the bevel segment (L) Fig. 13 lines up with the indicating mark (M) Fig. 13 on bracket.
3. Tighten the bevel adjustment locking lever to the locked position and press down firmly.

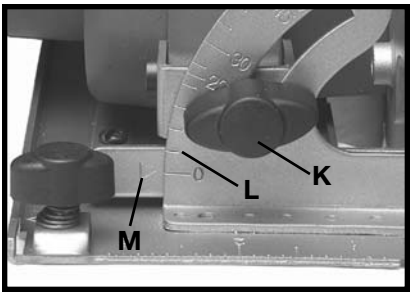

Fig. 13

90° POSITIVE STOP

This saw is equipped with an adjustable positive stop for 90° (N) Fig. 14. Although this stop has been set at the factory, check it occasionally to ensure accuracy.

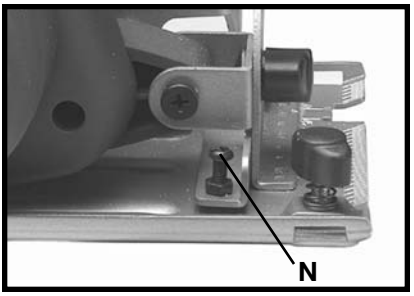

Fig. 14

TO ADJUST 90° POSITIVE STOP

⚠WARNING REMOVE THE BATTERY.

1. Loosen the bevel adjustment locking lever (K) Fig. 13 and position the base for 90° cuts, being sure that the top of the base is in contact with the bottom of stop screw (N) Fig. 14. Tighten the locking lever.
2. Turn the saw upside down, retract the telescoping guard and check the squareness of blade (Fig. 15).
3. If adjustment is necessary, loosen the bevel adjustment locking knob, keeping the top of the base in contact with the stop screw. Turn the stop screw until the angle is correct.

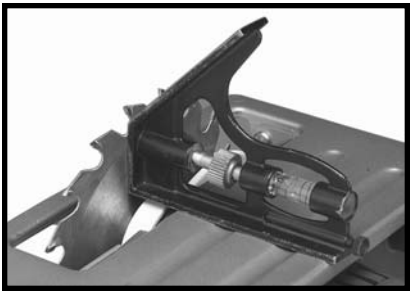

Fig. 15

LINE OF CUT INDICATOR

A line of cut indicator 16 is provided at the front of the base. The left edge (A) Fig. 16, of the notch, is used to follow a line when making 90° cuts. The right edge (B), of the notch, is used to follow a line when making 45° cuts.

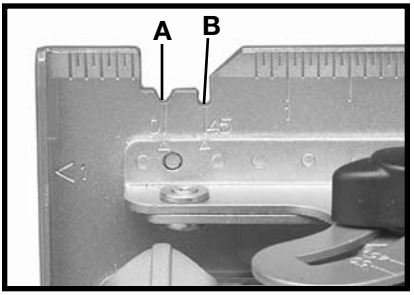

Fig. 16

TO ATTACH RIP GUIDE

A rip guide (V) Fig. 17 is available as an accessory. To install:

1. Insert the rip guide (V) Fig. 17 through the slot in the left side of the base, over the stud, and through the slot in the right side of the base.
2. Adjust rip guide for desired width of cut.
3. Tighten the knob (W) securely.

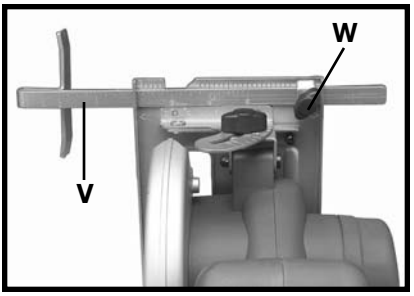

Fig. 17

HOW TO USE THE SAW

For your protection, effective control of this powerful saw requires two-handed operation. The saw may be operated either right-handed (Fig. 18) or left-handed (Fig. 19).

⚠WARNING SUPPORT THE WORK PROPERLY AND HOLD THE SAW FIRMLY TO PREVENT LOSS OF CONTROL WHICH COULD CAUSE PERSONAL INJURY.

Clamp the workpiece on a rigid support such as a bench or saw horses. Mark the line of cut on the work. Be sure that the cut-off line is beyond the end of the support to the left only enough to allow proper operation of the telescoping guard. Place the front edge of the saw squarely on the workpiece before starting the motor. Sight the cutting line with the line of cut indicator (A) Fig. 16. Back the saw up slightly and start the motor. Move the saw forward, keeping the edge of the line indicator parallel to the line of cut.

Do not force the cut. Let the saw do the cutting at the rate of speed permitted by the type of cut and the type of workpiece. When the cut is complete, release the switch and allow the blade to stop before lifting the saw from the work. Be sure the lower blade guard is closed before putting the saw down.

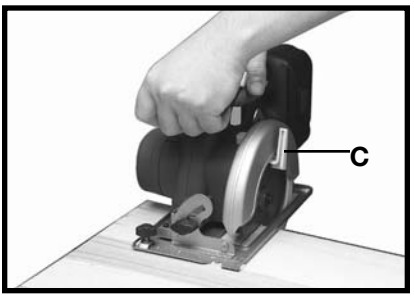

Fig. 18

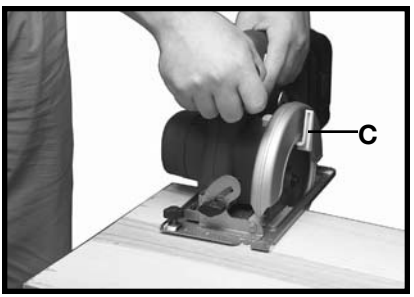

Fig. 19

CROSSCUTTING

Cutting directly across the grain of a piece of lumber is called crosscutting. Fig. 18 illustrates a crosscut operation.

RIPPING

Cutting wood lengthwise is referred to as ripping. This operation is performed in the same manner as crosscutting with the exception of supporting the workpiece. If workpiece is supported on a large table, bench, or floor, place several pieces of scrap stock approximately one inch thick beneath the work-

piece to allow clearance for the portion of the saw blade that extends thru the workpiece.

Place 2 x 4's lengthwise between the horses and the workpiece to prevent large sheets of paneling or thin plywood from sagging.

For narrow rip cuts, the rip guide is available as an accessory. Guide the saw by keeping the inner face of the rip guide (Fig. 17) tight against the edge of the board.

For making wider cuts, - plywood and wide sheets - clamp or tack a straight-edge guide or a wooden guide strip on the workpiece. Place the right edge of the saw against this guide strip for accurate cuts. **NOTE:** Adjust the depth of cut to allow for the thickness of the guide.

BEVEL CUTTING

Bevel cuts are made in the same manner as crosscuts and rip cuts with the blade set at an angle between 0° and 45° (Fig. 20).

The bevel cut made at an angle to the edge of a board is called a compound cut. On certain compound cuts, you may need to manually retract the telescoping guard to allow the blade to enter into and/or through the cut.

Fig. 20

⚠CAUTION Use the lever (C) Fig. 18 or 19 provided on the telescoping guard when retracting the telescoping guard manually.

MAINTENANCE

KEEP TOOL CLEAN

All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could very possibly dissolve or otherwise damage the material.

FAILURE TO START

Should your tool fail to start, make sure battery pack is charged and properly installed in tool.

BATTERY

The battery pack will discharge by itself without damage if stored for long periods of time, and may require recharging before use.

LUBRICATION

For your continued safety and electrical protection, lubrication and service on this tool should ONLY be performed by an AUTHORIZED Delta SERVICE STATION or a PORTER-CABLE•DELTA FACTORY SERVICE CENTER.

At approximately 100 hours of use, take or send your tool to your nearest Authorized Delta Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, and performance tested.

SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED Delta SERVICE STATION or a PORTER-CABLE•DELTA FACTORY SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

ACCESSORIES

A complete line of accessories is available from your Porter-Cable• Delta Supplier, Porter-Cable•Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site **www.deltamachinery.com** for a catalog or for the name of your nearest supplier.

⚠WARNING Since accessories other than those offered by Porter-Cable•Delta, have not been tested with this product use of such accessories could be hazardous. For safest operation, only Porter-Cable •Delta recommended accessories should be used with this product.

Two Year Limited New Product Warranty

Delta will repair or replace, at its expense and at its option, any new Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. For all refurbished Delta product, the warranty period is 180 days. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

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Fax: (614) 263-1238

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Fax: (216) 447-3097

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